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July 8, 2004

TO: Minerals File

FROM: Doug Jensen, Senior Reclamation Engineer

SUBJECT: Site Inspection, Kennecott Barneys Canyon Mining, Barneys Canyon Mine, M/035/009, Salt Lake County, Utah

Date of Inspection: June 25, 2004
Time of Inspection: 8:00 a.m.
Conditions: Sunny
Participants: Ray Gottling, Vicki Peacey Kennecott; Daron Haddock, Doug Jensen, Lynn Kunzler, DOGM

Purpose of Inspection:

This inspection was made to check site conditions since the completion of reclamation in the upper mine areas. This tour was also a chance for Daron to become familiar with the site.

Getting to the site:

Refer to previous inspection memos.

Observations:

Ray and Vicki met us at the gate at Barneys Canyon for the tour. We started the tour at the entrance of the Melco Pit. This pit marks the upper reaches of the disturbance at Barneys. We walked up a reclaimed dump area northeast of the entrance to the pit to check the vegetation and recontouring and also for any rilling due to high water flows. This area has two larger drainages that had been impacted by the construction and reclamation of these dumps. There was no evidence that any flows from these areas had caused any problems. Overall, the reclamation in this area looked good. The vegetation had good diversity and appeared to be doing very well.

From this area we walked the reclaimed dump area below the pit. This is a large area which also has a drainage running along the northeast side of the reclaimed area. There was no evidence of any problems due to runoff coming from this drainage.

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There is one problem area on the face of the dump near an area which has an area which has a fairly deep rill running ~100 feet down the slope. After a closer examination of the rill, it was determined that this area had washed out before the establishment of the vegetation. This is evidenced by the fact that, at the time of our visit, there was vegetation growing in the bottom of the rill. Kennecott was advised to monitor this area to determine if this rill was the result of a spring storm event or an ongoing problem which would need to be corrected. The cause of the rill will dictate the remedy to the problem.

Also in this area, there was an area on either side of the reclamation, approximately 15 feet wide and ~100 long, which had a jute mate placed to reduce erosion. There was no vegetation growing within the areas covered by the jute pad. Vicki stated that she would have this area seeded this fall to attempt to fill in the vegetation in these areas.

There was also an outslope area of the haulroad immediately above this area where the vegetation has not become established. This is an area where, because of the location, the slope could not be reduced. Soil was cascaded over this area but in a portion of this slope the soils did not stay on the slope. The soil remained on areas on either side of this area and the vegetation is becoming established. It's believed that this area will fill over time. If the soil would not stay on the first effort, it's believed that the results would be the same if it were attempted again. A picture of this area was taken and is included with this report.

This was the last area inspected on this tour. We returned to the parking lot and left the site.

Conclusions and Recommendations:

It's recommended that the vegetation continue to be monitored at the site and any marginal areas be reseeded. Also continue to monitor the reclaimed areas for areas that may become affected by runoff.

DJ:jb
Attachment: Photo
cc: Ray Gottling, Kennecott
Vicki Peacey, Kennecott
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Dump Rill

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HAULROAD OUTSLOPE